Dust Control Plan

For

Navajo Generating Station

Pursuant to the Source-Specific Federal Implementation Plan 40 CFR Part 49

Prepared By: SALT RIVER PROJECT Navajo Generating Station P.O. Box 850 Page, AZ 86040

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1.0 INTRODUCTION AND PURPOSE

Salt River Project's (SRP's) Navajo Generating Station (NGS) facility is committed to responsible and sustainable stewardship of the environment; and compliance with the requirements of the United States Environmental Protection Agency's (EPA's) Federal Implementation Plan (FIP) for NGS, recorded in the Federal Register under 40 CFR Part 49. This Dust Control Plan (DCP) describes methods and procedures to minimize emissions from point and non-point dust sources and maintain compliance with the FIP.

FIP conditions in 40 CFR Part 49 §49.24(d)(3) specify that:

"Each owner or operator shall operate and maintain the existing dust suppression methods for controlling dust from the coal handling and storage facilities. Within 90 days after promulgation of these regulations the owner or operator shall submit to the Regional Administrator a description of the dust suppression methods for controlling dust from the coal handling and storage facilities, fly ash handling and storage, and road sweeping activities. Each owner or operator shall not emit dust with opacity greater than 20% from any crusher, grinding mill, screening operation, belt conveyor, truck loading or unloading operation, or railcar unloading station."

2.0 FACILITY DETAILS

NGS is a participant owned generating plant managed by SRP. NGS is located on leased land 5 miles southeast of Page Arizona at 4365 feet (elevation). The participants are U.S. Bureau of Reclamation (24.3% ownership), Los Angeles Department of Water and Power (21.2%), Salt River Project (21.7%), Arizona Public Service (14.0%), Nevada Power (11.3%) and Tucson Electric Power Co. (7.5%). NGS is a three-unit coal fired power plant (supercritical design tangentially-fired boilers) generating 2250 net megawatts of power.

Bituminous coal is mined by Peabody Energy at the Black Mesa Mine Complex and delivered by electric rail to NGS. Coal is then transferred via enclosed conveyor systems for burning in the boilers or stacked out to a storage pile for later use.

The management of coal combustion residues and the delivery of limestone for the SO2 scrubbers is contracted to a third party entity but SRP remains the responsible party for truck loading and unloading operations, material transfer, storage, and disposal activities. Coal combustion residues include flyash, bottom ash, and scrubber byproducts. Bottom ash and scrubber byproducts are handled in a wet state which minimizes the potential for dust emissions and these materials are not addressed in the FIP and in this document.

3.0 GEOGRAPHY AND CLIMATE

NGS is located in an arid desert environment receiving an annual average of seven and half inches of precipitation. The surrounding geologic formations include outcroppings of the Carmel formation, Page Sandstone, and Navajo Sandstone. Weathering of these formations have created substrates of unconsolidated aeolian sands and partially stabilized dune deposits with sparse vegetation.

4.0 DUST SUPPRESSION METHODS

The FIP requires in 40 CFR Part 49 §49.24(d)(3) a description of the dust suppression methods for coal handling and storage facilities, fly ash handling and storage, and road sweeping activities.

The tables contained in this section outline preventive and mitigating control measures as guidelines to minimize dust emissions from paved and unpaved roads, storage piles, and the material handling related to coal, fly ash, and limestone.

4.1 Roadways

Dust emissions from roadways are mitigated using control measures outlined below. Main trafficked areas are sprayed with water daily (weather permitted) and speed limits are observed. During winter months, ice formation may preclude water spraying due to safety consideration.

<u>Roadway Non-Point Sources:</u> One or more of the following control measures will be implemented to minimize dust emissions from roadway sources.

TABLE 1.0 Control Measure Guidelines:

Source:	Roadway Dust Control Measures		
Paved Roads:	1. Water spray roads		
Traffic Activity	2. Speed reduction		
	3. Limit Traffic		
	4. Sweeping of roads		
Unpaved Roads:	1. Water spray roads		
Traffic Activity	2. Speed reduction		
	3. Limit traffic		
	4. Gravel surface		
	5. Chemical stabilization		
Carryout	 Clean vehicles before entering roadway 		
	2. Pave access road near plant site exit		
	3. Rapid cleanup after spill events		

Monitor: Verify control measures weekly.

4.2 Material Storage

Table 2.0 Control Measure Guidelines:

Material Storage

Control techniques applicable to outdoor material storage piles fall into distinct categories as related to handling operations (including traffic around piles) and mitigating wind erosion. In both cases, the control can be achieved by implementing one or more of the following strategies: (a) source extent reduction, (b) source improvement related to work practices and transfer equipment (load-in and load-out operations), and (c) surface treatments.

	Material Disturbance and Wind Erosion Control Measures:		
Source control	Minimize exposed surface area		
	2. Minimize surface disturbances and material handling		
Source improvement	Reduce drop height when handling material		
	2. Maintain moisture and crust, as applicable		
	3. Shelter from wind, as applicable		
Surface treatment	1. Water Spraying, as applicable		
	2. Chemical stabilization		

Monitor: Verify control measures weekly.

4.3 Coal Handling

SRP's responsibilities extend to all aspects of coal handling and storage; this includes implementing dust control measures for the following:

<u>Coal Handling Non-Point Sources:</u> One or more of the following control measures will be implemented by NGS to minimize dust emissions from the potential sources listed below:

TABLE 3.0 Control Measure Guidelines:

Source: (Unit ID)	Material Handling Control Measures		
Material Handling: (CT1)	Shelter from wind - enclosure		
Railroad car unloading	2. Reduce drop height – minimum hopper level		
operations	maintained		
-	3. Watering spraying		
(L1-L12) Twelve hopper	Shelter from wind - enclosure		
feeders	2. Water spraying		
	3. Chemical stabilization		
(BC-1) Belt Conveyor	Shelter from wind - enclosure		
•	2. Water spraying		
	3. Chemical stabilization		
(BC-2)	Shelter from wind - enclosure		
	2. Maintain moisture		
(BC-3)	Shelter from wind - enclosure		
	2. Maintain moisture		
(BC-4)	Shelter from wind - enclosure		
	2. Maintain moisture		
(BC-4A)	Shelter from wind - enclosure		
	2. Maintain moisture		
(BFD-5A)	Shelter from wind - enclosure		

Belt Feeder Deck	2. Maintain moisture
(BC-5)	1. Shelter from wind - enclosure
	2. Maintain moisture
(BC-6A) 1 of 3 stacker /	1. Shelter from wind - enclosure
reclaimer reversible	2. Water spraying
conveyers	3. Chemical stabilization
(BC-6B) 2 of 3 stacker	1. Shelter from wind - enclosure
conveyer only	2. Maintain moisture
(BC-6C) 3 of 3 stacker /	1. Shelter from wind - enclosure
reclaimer reversible	
conveyers	
(BC-6)	1. Shelter from wind - enclosure
	2. Water spraying
	3. Chemical stabilization
(BC-7) One conveyor to the	1. Shelter from wind - enclosure
emergency reclaim hopper	2. Water spraying
	3. Chemical stabilization
Wind Erosion: (CS) Outdoor	1. Maintain moisture
coal storage piles	2. Water spraying
	3. Chemical stabilization

Monitor: Verify control measures weekly.

<u>Coal Handling Point Sources:</u> The potential sources listed in Table 4.0 utilize particulate control devices to control emissions.

TABLE 4.0 Emission Control Devices:

Unit ID / Stack ID:	Control Device	Make / Size	Stack Details
YSB-1 BC-8A & BC-8B BC-8A & BC-8B screening operation	DC-8 (Sample Bldg - 100 feet elevation)	Peabody Lugar LT (Air Flow 20,000 acfm)	Exit opening facing eastward on east side of EF-8. Opening: 1.5 feet by 2 feet
PSB-1 BC-9A & BC-9B BC-10A & BC-10B	DE-5 (Cascade Enclosure - 135 feet elevation)	SIEMENS Dust Eliminator System	Exit opening is outside building facing west. Opening: 3 feet by 3 feet
CC-1A thru CC-9A; CC-1B thru CC-9B; BC-11A & BC-11B		dust emissions from the by DE-1 through DE-4	
Silos 1A thru 1G	DE-1 & DE-2 (Cascade Enclosure - 135 feet elevation)	SIEMENS and PR-1, SR-1 & EX-1	Exit opening is outside building facing east. Opening: 3 feet by 3 feet

Silos 2A thru 2G	DE-3 & DE-4 (Cascade Enclosure - 135 feet elevation)	SIEMENS and PR-2, SR-2 & EX-2	Exit opening is outside building facing east. Opening: 3 feet by 3 feet
Silos 3A thru 3G	DE-6 & DE-7 (Cascade Enclosure - 135 feet elevation)	SIEMENS and PR-3, SR-3 & EX-3	Exit opening is outside building facing east. Opening: 3 feet by 3 feet

<u>Monitor</u>: Weekly visible emission observations will be recorded for each control device listed above that is operating. If visible emissions are observed, opacity readings will be conducted in accordance with EPA Method 9.

4.4 Fly Ash Handling

SRP's responsibilities extend to all aspects of flyash handling and storage although some activities are managed by a third party contractor:

<u>Fly Ash Non-point Sources:</u> The activities in Table 5.0 are managed by a third party contractor and activities in Table 5.1 are managed by SRP. One or more of the following control measures are implemented to minimize dust emissions from these potential sources.

TABLE 5.0 Control Measure Guidelines:

ADLE 5.0 Control Measure Guidennes.			
Source:	Material Handling and Roadway Control Measure(s)		
Material Handling:	1. Drop height reduction		
Silo 1 Loading	2. Moisture retention, apply as needed		
(open bed haul truck	3. Wind sheltering, loading chute		
loading operations)			
Silo 2 Loading	1. Drop height reduction		
(open bed haul truck	2. Moisture retention, apply as needed		
loading operations)	3. Wind sheltering, loading chute		
Paved Roads:	1. Limit Traffic		
Traffic Activity	2. Sweeping of roads		
	3. Water Flushing of roads		
Carryout	1. Clean vehicles before entering roadway		
	2. Pave access road near site exit		
	3. Rapid cleanup after event		
Spillage	Reducing overloaded trucks		
	2. Wetting materials being hauled		
Unpaved Roads:	Water Suppression		
Traffic Activity	2. Chemical stabilization		
·	3. Speed reduction		
	4. Limit traffic		
	5. Gravel surface		

TABLE 5.1 Control Measure Guidelines:

Source:	Material Handling/Processing Control Measure(s)	
Spillage (conveyance from	1. Enclosure	
post-furnace to enclosed silos)	2. Rapid cleanup after spill events	

Monitor: Verify control measures weekly.

<u>Flyash Point Sources:</u> The potential sources listed in Table 6.0 are managed by SRP and utilize particulate control devices to control emissions.

TABLE 6.0 Emission Control Devices:

Unit ID / Stack ID:	Control Device	Make / Size	Stack Details
Silo 1	DC-S1/2	Scientific Dust	EX Fan facing
(storage activity)	(baghouse on top of	Collectors	south on west end
	Silo 1)		of baghouse.
			Opening: 2.5 feet
			by 4 feet
Silo 2	DC-S3	Scientific Dust	EX Fan facing
(storage activity)	(baghouse on top of	Collectors	south on west end
	Silo 2)		of baghouse.
			Opening: 2.5 feet
			by 4 feet
Silo 1 Loading	DC-S1/2	Scientific Dust	Facing skyward on
(enclosed fly ash	(baghouse on top of	Collectors	east side of
trucks loading)	Silo 1)		baghouse.
			Opening: 1 foot by
			2 feet
Silo 2 Loading	DC-S3	Scientific Dust	EX Fan facing
(enclosed fly ash	(baghouse on top	Collectors	south on west end
trucks loading)	Silo 2)		of baghouse.
			Opening: 2.5 feet
			by 4 feet

<u>Monitor</u>: Weekly visible emission observations will be recorded for each control device listed above that is operating. If visible emissions are observed, opacity readings will be conducted in accordance with EPA Method 9.

4.5 Limestone Handling

All Limestone Non-Point and Point sources are managed in accordance with the NGS Title V Operating Permit, Section II.D. NSPS, Subpart OOO requirements.

Limestone Handling Non-point Sources:

Table 7.0 Control Measure Guidelines:

Source:	Control Measure(s)		
Material Handling:	Not Applicable - Truck dumping of non-metallic minerals into		
Unloading Bay A and B (truck unloading operations)	any screening operation, feed hopper, or crusher is exempt per 40 CFR 60.672(d)		
LS – Limestone Storage Pile	Water suppression Maintain visible surface crust		

Monitor: Weekly observations will be recorded.

<u>Limestone Handling Point Sources:</u> The potential sources listed in Table 8.0 utilize particulate control devices to control emissions.

Table 8.0 Control Devices:

Unit ID / Stack ID:	Control Device	Make / Size	Stack Details
O-LSH-HOP-A O-LSH-FDR-A O-LSH-CNV-A	DC-9 (Baghouse on SW corner of Limestone Handling)	Mac Equipment Company, Serial number 95- FMCF361Filter, 12X12X38.1 feet tall, 22,000 pounds	Facing skyward. Opening: 34 inch diameter pipe
		and a design capacity of 18,000 ACFM.	
O-LSH-HOP-B	DC-1 0	Mac Equipment Company, Serial number 96-	
O-LSH-FDR-B	(Baghouse on NE corner of	MCF361Filter,	Facing skyward.
O-LSH-CNV-B	Limestone Handling)	12X12X38.1 feet tall, 22,000 pounds and a design capacity of 18,000 ACFM.	Opening: 34 inch diameter pipe
O-LSH-SILO-A&B	DC-11 (Baghouse on W side of Limestone Prep Building)	Mac Equipment Company, Serial number 95-FMCF- 07-007, Model number 96- MCF255Filter, 10X10X32.2 feet tall, 9,200 pounds and a design capacity of 12,681 ACFM.	Facing skyward. Opening: 30 inch diameter pipe

Monitor: Weekly observations will be recorded.

Opacity limitations are as follows:

- No greater than 15% from any crusher without a capture system.
- No greater than 10% from any transfer point without a capture system.
- No greater than 7% from any stack emissions or building vent enclosing any transfer point or crushing operations.
- Truck dumping of nonmetallic minerals into any screening operations, feed hopper or crusher is exempt per 40 CFR 60.672(d).

4.5 Soda Ash and Lime Handling

All Soda Ash Point sources are managed in accordance with the FIP conditions in 40 CFR Part 49 §49.24(d)(3).

<u>Soda Ash and Lime Handling Point Sources:</u> The potential sources listed in Table 9.0 utilize particulate control devices to control emissions.

Table 9.0	Control Device	Make / Size	Stack Details
Control Devices:Unit ID / Stack ID:			
SAB-1A, SAB-2A, SAB-1B, SAB-2B (water treatment soda ash storage activity)	DC-BH6 (baghouse on top of Bin 3)	Scientific Dust Collectors	Exhaust opening facing south on top of baghouse. Opening: 6" I.D.
LB-1 & LB-2 (water treatment lime storage activity)	DC-BH7 (baghouse on top of Bin 1)	Scientific Dust Collectors	Exhaust opening facing south on top of baghouse. Opening: 6" I.D.

Monitor: Weekly observations will be recorded.

Opacity limitations are as follows:

• No greater than 20% from any capture system.

5.0 INSPECTIONS

The effectiveness of control measures will be evaluated using regular inspections and documentation of visible emissions, as applicable. Dust control devices will be operated and maintained with opacity emission limits specified in the Federal Implementation Plan - 40 CFR Part 49 §49.24(e)(8).

Inspections shall be performed weekly by trained and certified Method 9 observers. For non-point sources the inspectors shall document active control measures that are being used to minimize dust emissions. In the case of point sources, the observers shall perform visible emission observations. If visible emissions are observed, opacity readings will be conducted in accordance with EPA Method 9

See Section 9 – Weekly Inspection Forms

6.0 RECORD KEEPING AND REPORTING

SRP will maintain records of weekly inspection records, Method 9 certification training, and Method 9 observations.

SRP will make reports as necessary in accordance with the Federal Implementation Plan - 40 CFR Part 49 §49.24(f).

For excess emissions, SRP will notify the Navajo Environmental Protection Agency Director and the U.S. Environmental Protection Agency Regional Administrator by telephone or in writing within one business day.

The notifications will be sent to the Director, Navajo Environmental Protection Agency, by mail to: P.O. Box 339, Window Rock, Arizona 86515, or by facsimile to: (928) 871–7996 (facsimile), and to the Regional Administrator, U.S. Environmental Protection Agency Region 9, by mail to the attention of Mail Code: AIR–5, at 75 Hawthorne Street, San Francisco, California 94105, by facsimile to: (415) 947–3579 (facsimile), or by e-mail to: r9.aeo@epa.gov.

A complete written report of the incident shall be submitted to the Regional Administrator within ten (10) working days after the event. This notification shall include the following information:

- (i) The identity of the stack and/or other emissions points where excess emissions occurred;
- (ii) The magnitude of the excess emissions expressed in the units of the applicable emissions limitation and the operating data and calculations used in determining the magnitude of the excess emissions;
- (iii) The time and duration or expected duration of the excess emissions;
- (iv) The identity of the equipment causing the excess emissions;
- (v) The nature and cause of such excess emissions;
- (vi) If the excess emissions were the result of a malfunction, the steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of such malfunction; and (vii) The steps that were taken or are being taken to limit excess emissions.

7.0 ROADWAY EQUIPMENT

2 - Water Truck

Owner: HRI Make: Komatsu, Model Mega, 13,000 gallon capacity SRP RENTAL Make: International, Model 4300, 4,000 gallon capacity

1 – Water Pull

Owner: SRP Make: Caterpillar, Model 621-G, 8,000 gallon capacity

2 - Ride-On Sweeper

Owner: SRP Make: Tennet, Model 355-G, 14 cubic feet hopper volume Owner: SRP Make: Tennet, Model 830, 3.4 cubic yard hopper volume

1 - Vacuum Truck

Owner: SRP Make: International, Supersucker Model 5227, 15 cubic yard capacity

8.0 TRAINING

At least two (2) on-site personnel will obtain EPA Method 9 certifications and receiving training regarding weekly inspections and provisions of this plan. A copy of the NGS FIP Dust Control Plan will be made available to plant personnel and the third party contractor responsible for handling coal combustion residues and limestone deliveries.

9.0 ATTACHMENTS

- 9.1 Facility Map
- 9.2 Weekly Inspection Forms
- 9.3 Visible Emissions Form

Facility Map

Weekly Inspection Forms

WEEKLY INSPECTION FORMS

	NGS FIP WEEK	LY OBSERVAT	ΓΙΟΝS – <mark>2</mark> 0% ΟΡΑ <mark></mark>	ITY LIMIT	
Certified	Walter Begay	Jon Adams	LD Shakespear		
Observer (Circle)				Date:	
Signature:					
		SRP/	NGS		
			1.00		
	Non-Pol	nt Sources (Coa	l Handling and Stora	ige)	
Λ	MATERIAL HAN	DLING AND ST	ORAGE CONTROL	MEASURES	
Source (Unit ID)	Control Measur	e(s) Implemente	d (Circle)	Comments:	
Material	1. Shelter f	rom wind - enclos	sure		
Handling: (CT1)	2. Reduce of	drop height – min	imum hopper level		
Railroad car	maintain	ed			
unloading	3. Water sp	raying			
operations					
(L1-L12) Twelve	1	rom wind - enclos	sure		
hopper feeders	2. Watering				
		l stabilization			
(BC-1) Belt	1	rom wind - enclos	sure		
Conveyor	2. Water sp				
		l stabilization			
(BC-2)	1	rom wind - enclos	sure		
		moisture			
(BC-3)	i e	rom wind - enclos	sure		
		moisture			
(BC-4)		rom wind - enclos	sure		
		moisture			
(BC-4A)	l .	rom wind - enclos	sure		
(=======		moisture			
(BFD-5A)	1	rom wind - enclos	sure		
Belt Feeder Deck		moisture			
(BC-5)	1	rom wind - enclos	sure		
(DC (A) 1 C2		moisture			
(BC-6A) 1 of 3		rom wind - enclos	sure		
stacker / reclaimer	2. Water sp				
reversible	3. Chemica	l stabilization			
conveyers (BC-6B) 2 of 3	1 Chaltan f	nom raind on alor			
'	1	rom wind - enclos moisture	sure		
stacker conveyer only	Z. Iviaintain	moistare			
(BC-6C) 3 of 3	1. Shelter f	rom wind - enclos	Cure		
stacker / reclaimer	1. Sheller I	iom wind - enclos	suic		
reversible					
conveyers					

		SR	P/NGS					
M	Non-Poi ATERIAL HAN	nt Sources (C DLING AND :				SURES		
Source (Unit ID)	Control Measur	e(s) Implemen	ted (Circle)		Com	ments:		
(BC-6)	2. Water sp	rom wind - enc raying I stabilization	losure					
(BC-7) One conveyor to the emergency reclaim hopper	2. Water sp	rom wind - enc raying l stabilization	losure					
Wind Erosion: (CS) Outdoor coal storage piles	2. Water sp	moisture or vi raying I stabilization	sible crust					
		Sources (Coal						
Source (Unit ID)	Control Devic	·····	Is Control Device Operating? (Check one)		Is there	Is there VE? (Check one) YES NO		PA d 09 cted? cone) NO**
YSB-1 BC-8A & BC-8B BC-8A & BC-8B screening operation		OC-8					YES*	
PSB-1 BC-9A & BC-9B BC-10A & BC-10B		DE-5						
CC-6A/6B & Silos 1A thru 1C (coal silos)	Г	E-1						
CC-4A/4B, CC- 5A/5B & Silos 1D thru 1G (coal silos)	Γ	0E-2						
Cascade Enclosure		R-1 EX-1						

^{*} Note: Complete one Method 9 VE Observation Form for each control device if visible emissions are observed.

^{**}Note: Method 9 VE Observation Form was not completed due to: Wind Direction / Sun Position / Other. Explain:

SR	P/NGS					
Control Device	Control Device Is Control Device Operating? (Check one) Is there VE (Check one)			Methoc conduc	l 09 ted?	
DE-3						
DE-4						
PR-2 SR-2 EX-2						
DE-6						
DE-7						
PR-3 SR-3 EX-3						
						1
Control Device	Operating? (Check one) (Check		Is there VE? (Check one) YES NO		id 09 cted?	
DC-S1/2						
DC-S3						
	Point Sources (Coal Handle PARTICULATE Control Device DE-3 DE-4 PR-2 SR-2 EX-2 DE-6 DE-7 PR-3 SR-3 EX-3 Point Sources (Fly As PARTICULATE Control Device DC-S1/2 DC-S3	PARTICULATE CONTROL IS Control Device Operate (Check YES) DE-3 DE-4 PR-2 SR-2 EX-2 DE-6 DE-7 PR-3 SR-3 EX-3 Point Sources (Fly Ash Handling PARTICULATE CONTROL IS Control Device (Check YES) DC-S1/2 DC-S3	Point Sources (Coal Handling and Storage - Con PARTICULATE CONTROL DEVICES Control Device Is Control Device Operating? (Check one) YES NO DE-3 DE-3 DE-4 PR-2 SR-2 EX-2 DE-6 DE-7 PR-3 SR-3 EX-3 Point Sources (Fly Ash Handling and Stora PARTICULATE CONTROL DEVICES Control Device Operating? (Check one) YES NO DC-S1/2 DC-S3 DE-STORAGE OF NO	Point Sources (Coal Handling and Storage - Continued) PARTICULATE CONTROL DEVICES Control Device Is Control Device Device Operating? (Check one) YES NO YES	Point Sources (Coal Handling and Storage - Continued) PARTICULATE CONTROL DEVICES Control Device Is Control Is there VE?	Point Sources (Coal Handling and Storage - Continued) PARTICULATE CONTROL DEVICES Control Device Is Control Device Operating? (Check one) YES NO DE-3 DE-3 DE-4 PR-2 SR-2 EX-2 DE-6 DE-7 PR-3 SR-3 EX-3 Point Sources (Fly Ash Handling and Storage) PARTICULATE CONTROL DEVICES Control Device Operating? (Check one) YES OR Reference Storage (Check one) YES NO VES Was EI Method conduct (Check one) YES NO VES Was EI Method conduct (Check one) YES NO VES Was EI Method conduct (Check one) YES NO YES

^{*} Note: Complete one Method 9 VE Observation Form for each control device if visible emissions are observed.

^{**}Note: Method 9 VE Observation Form was not completed due to: Wind Direction / Sun Position / Other. Explain:

SRP/NGS									
Point Sources (Fly Ash Handling and Storage) PARTICULATE CONTROL DEVICES									
Source	Control Device	Is Control Device Operating? (Check one)			(Check one)		PA 1 09 ted? one)		
Silo 1 Loading (1 of 2 loading; enclosed trailer loadout)	DC-S1/2	YES	NO	YES	NO	YES*	NO**		
Silo 2 Loading (2 of 2 loading; enclosed trailer loadout)	DC-S3								

^{*} Note: Complete one Method 9 VE Observation Form for each control device if visible emissions are observed.

^{**}Note: Method 9 VE Observation Form was not completed due to: Wind Direction / Sun Position / Other. Explain:

Non-Point Sources (Fly Ash Handling and Storage) MATERIAL HANDLING AND ROADWAY CONTROL MEASURES					
Source	Control Measure(s) Implemented (Circle)	Comments:			
Material	Drop height reduction				
Handling:	2. Moisture retention, apply as needed				
Silo 1 Loading	3. Wind sheltering, loading chute				
(2 of 2 loading;					
open bed haul truck					
loading operations)					
Silo 2 Loading	1. Drop height reduction				
(2 of 2 loading;	2. Moisture retention, apply as needed				
open bed haul truck	3. Wind sheltering, loading chute				
loading operations)					
Paved Roads:	1. Limit Traffic				
Traffic Activity					
	3. Water Flushing of roads				
Carryout	1. Clean vehicles before entering roadway				
	2. Pave access road near site exit				
	Rapid cleanup after event				
Spillage	Reducing overloaded trucks				
	Wetting materials being hauled				
Unpaved Roads:	1. Water suppression				
Traffic Activity	2. Chemical stabilization				
	3. Speed reduction				
	4. Limit traffic				
	5. Gravel surface				

	SRP/N	IGS			
М	Non-Point Sources (Fly Asl ATERIAL HANDLING AND ROA				
Source	Control Measure(s) Implemented			Comments:	
Spillage (conveyance from post-furnace to enclosed silos)	Enclosure Rapid cleanup after spill ev	rents			
	Non-Point PAVED ROADWAY CO		:ASUR!	ES	
Source	Control Measure(s) Implemented	(Circle)		Comments:	
Paved Roads: Traffic Activity	 Water Spraying of Roads Reduce Speed Limit Traffic Sweeping of roads 				
Carryout	 Clean vehicles before enter Pave access road near site e Rapid cleanup after event 	exit			
	Non-Point UNPAVED ROADWAY C		IEASU	RES	
Source	Control Measure(s) Implemented			Comments:	
Unpaved Roads: Traffic Activity	1. Watering 2. Chemical stabilization 3. Speed reduction 4. Limit traffic 5. Gravel surface				
	Point Sources (Soda Ash			ge)	
~ /*I *: *D)	PARTICULATE CO			* * *7500	way ways
Source (Unit ID)	Control Device Is Control Device Operating? (Check one) YES No		,	Check one)	Was EPA Method 09 conducted? (Check one) YES* NO**
SAB-1A, SAB-2A, SAB-1B, SAB-2B (water treatment soda ash storage activity)	DE-BH6				
observed.	one Method 9 VE Observation Form for Grant				

Explain:

	Point Sources (Lim PARTICULATE						
Source (Unit ID)	Control Device	Is Control Device Operating? (Check one) YES NO		Is there VE? (Check one) YES NO		Was EPA Method 09 conducted? (Check one) YES* NO**	
LB-1 & LB-2 (water treatment lime storage activity)	DE-BH7						

NGS LIM	ESTONE WEEKLY OBSERVA				CTIY L	IMITS		
Point Sources (Limestone Handling and Storage) PARTICULATE CONTROL DEVICES								
Source (Unit ID)	Control Device (LIMT)	Is Control Device Is to Operating? (Check one) (Check one)		Is ther		Was El Method conduc (Check YES*	d 09 ted?	
O-LSH-HOP-A		123	110	1113	110	1123	110	
O-LSH-FDR-A O-LSH-CNV-A	DC-9 (7% Opacity Limit)							
O-LSH-HOP-B O-LSH-FDR-B O-LSH-CNV-B	DC-10 (7% Opacity Limit)							
O-LSH-SILO- A&B	DC-11 (7% Opacity Limit)							
	Point and Non-Point Sources () MATERIAL HANDLING		000000000000000000000000000000000000000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	e)	-1		
Source	CIRCLE Control Measures Im	plemented (LI	MIT)	Co	mment	ts:		
O-LSP-FDR- A&B, O-LSP- CNV-A&B	 Enclosures - Pt. Src. Opacity Limits: From baghouses, stacks and bldg. vents/openings 7% Non-Enclosed - Fugitive Src. Opacity Limits: From transfer pts. 10% / crushing 15%. 							
Limestone Storage Pile (LS)	Dumping – Some activit Watering Maintain visible crust One Method 9 VE Observation Four	Dumping – Some activity is exempt 1. Watering						

^{*} Note: Complete one Method 9 VE Observation Form for each control device if visible emissions are observed.

^{**}Note: Method 9 VE Observation Form was not completed due to: Wind Direction / Sun Position / Other. Explain:

Visible Emissions Form

SRP/NGS VISIBLE EMISSION OBSERVATION FORM								
Observation	on Date:	Sta	art Time:	End Time:				
	Process Eq	uipment:	LIMIT	Process Control Device* (circle):				
Title V Co	Limestone Handling System Title V Condition: II.D.5.ii & II.D.6			DC9 DC10 DC11 or Bldg. Vents				
FIP Dust	erial Handling Control Plan	Table 2.0	20%	DE1 DE2 DE3 DE4 DE5 DE6 DE7 DC8				
FIP Dust	landling / Sto Control Plan	Table 3.0	20%	DCS1/2 DCS3				
FIP Dust	Trailer Load Control Plan	Table 7.0	20%	DCS1/2 DCS3				
1	i and Lime Ha Control Plan	_	20%	DEBH6 DEBH7				
Plume Co	lor:	Plume Back	rground:	Sky:				
Wind Spe	ed (mph):	Wind Direct	ion (N-E-S-W): Temperature (°F):				
Stack Ht.	- above 0 elev	r. (feet):Stack	Distance and	Ht. in relation to Observer (feet):				
SKETCH (symbols)- INDICATE BY DRAWING: 1. NORTH ARROW (→), True North is 22" east of Plant North 2. STACK POSITION (Δ) in relation to OBSERVER (X) 3. SUN POSITION (S) in relation to Observer Facing Stack Recording Observations. Opacity observations shall be recorded to the nearest 5 percent at 15-second intervals on an observational record sheet. A minimum of 24 observations shall be recorded. Each momentary observation recorded shall be deemed to represent the average opacity of emissions for a 15-second period. Data Reduction. Opacity shall be determined as an average of 24 consecutive observations recorded at 15-second intervals. Divide the observations recorded on the record sheet into sets of 24 consecutive observations. A set is composed of any 24								
	s, calculate the av everage opacity o		-	oservations and dividing this sum by 24.				
Minute	0 second	15 sec 30 se	c 45 sec	Comments				
1								
2								
3								
4								
5				_				
6								
	Su	m of opacity readings / 2	4 observations =	Average opacity**				
1								
2				-				
3				-				
4								
5								
6				A				
*****		m of opacity readings / 2		Average opacity**				
		t for one control devic is greater than LIMIT		s. stapuk and Operations IMMEDIATELY!				
Observer:	Observer: Date:							